

CLAIMS

1. A disposable packaging for dispensing at least one preparation from at least one pumpable liquid comprising at least one closed compartment containing the pumpable liquid, characterized in that the packaging comprises means for accepting an aspiration and mixing subassembly of the venturi type and means of sealing the packaging.
- 10 2. The packaging as claimed in claim 1, characterized in that the means for accepting the aspiration and mixing subassembly comprise a passage acting as a housing for said subassembly and in that the sealing means are intended to collaborate in terms of opening with the aspiration and mixing subassembly in said passage so as to place the compartment in communication with the aspiration and mixing subassembly, and an opening for ejecting said preparation.
- 20 3. The packaging as claimed in claim 2, characterized in that the aspiration and mixing subassembly is secured to the housing and able to move between a closed position in which the aspiration and mixing subassembly is disengaged from the sealing means and an opening position in which the aspiration and mixing subassembly engages the sealing means for the purposes of opening.
- 30 4. The packaging as claimed in claim 2, characterized in that the opening through the seal is closed off by a grating.
- 35 5. The packaging as claimed in claim 2 or 3, characterized in that it comprises a body comprising a hollow shaft forming the housing for the aspiration and mixing subassembly, in that the body delimits at least said compartment and in that the sealing means comprise

a seal welded to said body in order to close off at least said compartment.

6. The packaging as claimed in claim 5, characterized
5 in that the sealing means comprise a seal sealing ring which is welded to one edge of the hollow shaft, which ring is forced undone by a relative displacement of the aspiration and mixing subassembly within the hollow shaft.

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7. The packaging as claimed in claim 5 or 6, having a capacity of the order of a few milliliters to a few tens of milliliters, characterized in that it has the shape of a circular capsule with the hollow shaft at 15 its center and in that the seal forms the upper closure element of said capsule.

8. The packaging as claimed in claim 5 or 6, having a capacity of the order of a few deciliters, characterized in that the seal is arranged above a small-volume reserve in communication with the inside 20 of the packaging, said reserve being formed laterally by an extension of the upper closure element, by a side wall and by an end wall parallel to the end wall of 25 said packaging.

9. The packaging as claimed in claim 5 or 6, characterized in that the seal comprises a hole of a diameter smaller than the inside diameter of the hollow shaft so as to form a ring that can be welded or trapped at the end of the aspiration and mixing subassembly so as to allow the seal to be partially or completely undone from the hollow shaft during the relative translational movement of the aspiration 30 subassembly within the housing so as to place the food liquid in communication with at least one duct opening into the aspiration subassembly to allow the pumpable liquid to be aspirated, and a duct opening above the end wall of the capsule to equalize the pressure within 35

the capsule.

10. The packaging as claimed in claim 9, characterized
in that the seal is domed toward the inside of the
5 packaging before the sealing is undone, so that after
undoing, the seal forms a cup-shape in which the
openings of the equalizing ducts and aspiration ducts
of the nozzle are immersed.

10 11. The packaging as claimed in any one of claims 3 to
6, characterized in that the seal comprises a hole of a
diameter that more or less corresponds to the inside
diameter of the hollow shaft, and in that the seal is
made of a material that can be punctured by the
15 aspiration and mixing subassembly opening means during
the relative translational movement of the aspiration
and mixing subassembly within the hollow shaft.

12. The packaging as claimed in claim 11,
20 characterized in that the means for puncturing the seal
are formed of at least two ducts the ends of which are
bent over at 180° in order to puncture the seal, one of
the ducts opening above the end wall of said packaging
so as to equalize the pressure inside, the other
25 opening into the aspiration and mixing subassembly to
allow the liquid to be aspirated.

13. The packaging as claimed in any one of the
preceding claims, characterized in that the internal
30 volume of the capsule is divided by partitions making
it possible to form at least two compartments each one
containing a dose of liquid, each compartment
comprising sealing means able to collaborate
independently for the purposes of opening so as thus to
35 be able to place the compartments in communication with
the aspiration and mixing subassembly.

14. The packaging as claimed in claim 13,
characterized in that the interior volume of the

capsule is divided by partitions making it possible to form at least two compartments each containing different food liquids intended to be mixed by means of at least two sets of pressure-equalizing and aspiration ducts.

15. The packaging as claimed in any one of claims 4 to 14, characterized in that the body of the packaging additionally comprises reinforcing ribs and/or ribs for 10 positioning the aspiration and mixing subassembly; these ribs being formed as recesses in the end wall and in the wall, and orientated toward the hollow shaft.

16. The packaging as claimed in claim 15, characterized in that some ribs also form partitions having their top part welded to the seal.

17. The packaging as claimed in any one of claims 4 to 16, characterized in that the body of the capsule 20 comprises lugs making it easier to handle when fitting to the pipe of a pressurized-fluid generator or to an accessory secured thereto.

18. The packaging as claimed in any one of the preceding claims, characterized in that the aspiration 25 and mixing subassembly comprises at least one liquid aspiration duct, at least one gas carrying duct, at least one pressurized-fluid inlet, at least one aspiration chamber in which the ducts communicate and 30 at least one outlet for dispensing the preparation.

19. The packaging as claimed in claim 1, characterized in that the means for accepting the aspiration and mixing subassembly are configured in such a way as to 35 accommodate said subassembly permanently without relative displacement; said subassembly being in communication with the compartment and the sealing means being arranged in such a way as to isolate both said compartment and the subassembly from the external

surroundings.

20. A disposable packaging for dispensing at least one food liquid, said packaging being formed of a side
5 wall, of an end wall and of a closure element comprising a welded seal, characterized in that it comprises a passage designed to accommodate withdrawing means, said seal being able to be undone in a determined region so as to place the inside of the
10 packaging in communication with said withdrawing means when said withdrawing means are introduced into said passage without the withdrawing means entering the packaging.
- 15 21. A method for producing and dispensing a preparation hygienically, characterized in that it consists in using a disposable packaging comprising at least one pumpable liquid contained in at least one compartment of the packaging and comprises the steps
20 consisting, amongst other possibilities, in:
- opening the packaging, opening having the effect of placing the compartment in more or less leaktight communication with a venturi-type means;
 - using a pressurized fluid and a vacuum effect to
25 aspirate the liquid from the compartment into the venturi-type means, which is in communication with a heated pressurized fluid and possibly a gas;
 - mixing liquid with the heated pressurized-fluid and possibly the gas, so as to heat and possibly
30 emulsify or froth the liquid in order to form the preparation, and
 - dispensing the preparation thus obtained, heated and possibly emulsified.
- 35 22. The method as claimed in claim 21, characterized in that the opening of the packaging is performed through the action of the relative displacement of the venturi-type means with respect to the packaging.

23. The method as claimed in claim 22, characterized in that the opening of the compartment is performed by puncturing the packaging and placing the compartment containing the liquid in communication by the venturi-type means by at least one duct.
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24. The method as claimed in claim 22, characterized in that the opening of the compartment is performed by breaking a sealed part of the packaging and placing the compartment containing the liquid in communication by the venturi-type means by at least one duct.
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25. The method as claimed in claim 21, characterized in that during aspiration, the pressure in the compartment is equalized by placing the compartment in communication with an atmospheric-pressure outlet using at least one pressure equalizing duct.
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26. The method as claimed in claim 21, characterized in that the pressurized fluid is steam or hot water.
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27. The method as claimed in claim 21, characterized in that the gas is air.
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28. The method as claimed in claim 21, characterized in that the venturi-type means forms an integral part of the packaging and is disposable with the packaging.
29. The method as claimed in claim 21, characterized in that the venturi-type means forms part of a nozzle designed to be connected to the packaging.
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